Please amend claims 1, 5 and 7 as set out below in the listing of claims 1-52 of the application.

- (Currently Amended) A cleaning composition useful for removing photoresist and/or
 saerificial anti-reflective centing (SARC)-materials-from a substrate having such material(s)
 thereon, said-composition including an active cleaning combination (ACC) selected from the
 group consisting of: (a) a quaternary base in combination with at least one of alkali and alkaline
 earth base; and (b) a strong base in combination with an oxidant, wherein said cleaning
 composition is useful for removing photoresist and/or sacrificial anti-reflective coating (SARC)
 materials from a substrate having such material(s) thereon.
- (Original) The cleaning composition of claim 1, which is devoid of hydroxylamine therein.
- 3. (Original) The cleaning composition of claim 1, wherein said ACC comprises (a).
- (Original) The cleaning composition of claim 3, comprising the following components:
 - 0.1 40.0 weight % organic quaternary base;
 - 0.01-5 weight % alkali or alkaline earth base;
 - 0-80 weight % solvent(s) and/or amine(s);
 - 0-5 weight % surfactant;
 - 0-10 weight % chelator/passivation agent; and
 - 0-98 weight % water,

wherein percentages of the components are percentages by weight, based on total weight of the composition, and wherein the total of the weight percentages of such components of the composition does not exceed 100 weight %.

- (Currently Amended) The cleaning composition of claim 1, including at least one
 additional ingredient selected from the group consisting of stabilizers, dispersants, anti-oxidants,
 fillers, penetration agents, adjuvants, additives, fillers, and excipients.
- (Original) The cleaning composition of claim 3, comprising the following components:
 2-15 weight % organic quaternary base;

- ~0.01-2 weight % alkali or alkaline earth base:
- 0-50 weight % solvent(s) and/or amine(s);
- ~0.01-2 weight % surfactant;
- 0-5 weight % chelator/passivation agent; and
- 40 95 weight % water,

wherein percentages of the components are percentages by weight, based on total weight of the composition, and wherein the total of the weight percentages of such components of the composition does not exceed 100 weight %.

7. (Currently Amended) The A cleaning composition of elaim 1, selected from the group consisting of Formulations A-G, wherein all percentages are by weight, based on the total weight of the formulation:

Formulation A

- 5.36% benzyltrimethylammonium hydroxide
- 0.28% potassium hydroxide
- 3.0% [[4-methylkmorpholine]] 4-methylmorpholine N-oxide
- 0.30% polyoxyethylene(150) dinonylphenyl ether
- 0.08% 2-mercaptobenzimidazole
- 91.0% water

Formulation B

- 5.36% benzyltrimethylammonium hydroxide
- 0.28% potassium hydroxide
- 3.0% 4-methylmorpholine N-oxide
- 0.30% polyoxyethylene(150) dinonylphenyl ether
- 0.20% 5-amino-1.3.4-thiadiazole-2-thiol
- 90.86% water

Formulation C

- 3.60% benzyltrimethylammonium hydroxide
- 0.27% potassium hydroxide
- 3.5% 4-methylmorpholine N-oxide
- 15.0% 4-(3-aminopropyl)morpholine
- 0.30% polyoxyethylene(150) dinonylphenyl ether
- 0.08% 2-mercaptobenzimidazole
- 77.25% water

Formulation D

- 5.36% benzyltrimethylammonium hydroxide
- 0.28% potassium hydroxide

20.0% dimethyl sulfoxide

0.08% 2-mercaptobenzimidazole 74.28% water

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Formulation E

- 5.36% benzyltrimethylammonium hydroxide
- 0.28% potassium hydroxide
- 10.0% tetramethylene sulfone
- 0.30% oxirane, methyl-, polymer with oxirane, ether with 2.2'-(oxidoimino)bis(ethanol) (2:1), N(-3(C(-11-isoalkyloxy)propyl)derivatives, C₁₀-rich
- 0.08% 2-mercaptobenzimidazole
- 83.98% water

Formulation F

- 5.36% benzyltrimethylammonium hydroxide
- 0.28% potassium hydroxide
- 10.0% di(ethyleneglycol)butyl ether
- 10.0% 2-(2-dimethylamino)ethoxy)ethanol
- 0.30% oxirane, methyl-, polymer with oxirane, ether with 2.2'-(oxidoimino)bis(ethanol)

 N(-3(C-11-isoalkyloxy)propyl)derivatives, C₁₀-rich

 74.06% water

Formulation G

- 5.36% benzyltrimethylammonium hydroxide
- 0.28% potassium hydroxide
- 10.0% tetramethylene sulfone
- 10.0% di(ethyleneglycol)butyl ether
- 0.10% oxirane, methyl-, polymer with oxirane, mono(octylphenyl)ether
- 0.08% 2-mercaptobenzimidazole
- 74.18% water,

wherein said cleaning composition is useful for removing photoresist and/or sacrificial antireflective coating (SARC) materials from a substrate having such material(s) thereon.

- 8. (Withdrawn) The cleaning composition of claim 1, wherein said ACC comprises (b).
- (Withdrawn) The cleaning composition of claim 8, which includes an aqueous solution of at least one oxidant, a strong base, optionally a chelator and optionally a co-solvent and/or a surfactant.
- (Original) The cleaning composition of claim 1, wherein the ACC comprises potassium hydroxide.

- 11. (Withdrawn) The cleaning composition of claim 8, including the following components:
 - 0.1-30 wt % strong base;
 - 0.01-30 wt % oxidant;
 - 0-10 wt % chelator;
 - 0-5 wt % surfactant:
 - 0-50 wt % co-solvent; and
 - 20-98.9 wt % deionized water.

wherein percentages of the components are percentages by weight; based on total weight of the composition, and wherein the total of the weight percentages of such components of the composition does not exceed 100 weight %.

- 12. (Withdrawn) The cleaning composition of claim 11, wherein the strong base comprises a base species selected from the group consisting of potassium hydroxide and alkylammonium hydroxides and choline hydroxide.
- 13. (Withdrawn) The cleaning composition of claim 8, wherein the oxidant comprises an oxidant species selected from the group consisting of hydrogen peroxide, amine-N-oxides, perborate salts, persulfate salts, and combinations of two or more of the foregoing.
- 14. (Withdrawn) The cleaning composition of claim 8, including a chelator.
- 15. (Withdrawn) The cleaning composition of claim 14, wherein the chelator comprises a chelator species selected from the group consisting of: triazoles; triazoles substituted with substituent(s) selected from the group consisting of C₁-C₂ alkyl, amino, thiol, mercapto, imino, carboxy and nitro; thiazoles; tetrazoles; imidazoles; phosphates; thiols; azines; glycerols; amino acids; carboxylic acids; alcohols: amides; and quinolines.
- 16. (Withdrawn) The cleaning composition of claim 14, wherein the chelator comprises a chelator species selected from the group consisting of: 1,2,4-triazole; benzotriazole; tolyltriazole; 5-phenyl-benzotriazole; 5-nitro-benzotriazole; 1-amino-1,2,4-triazole; happenzotriazole; 2-csamino-pentyl)-benzotriazole; 1-amino-1,2,3-triazole; 1-amino-5-methyl-1,2,3-triazole; 3-mencapto-1,2,4-triazole; 3-isopropyl-1,2,4-triazole; 5-phenylthiol-benzotriazole; halo-benzotriazoles wherein halo is selected from the group consisting of F, Cl, Br

and I; naphthotriazole; 2-mercaptobenzoimidizole; 2-mercaptobenzothiazole; 5-aminotetrazole; 5-amino-1,3,4-thiadiazole-2-thiol; 2,4-diamino-6-methyl-1,3,5-triazine; thiazole; triazine; methyltetrazole; 1,3-dimethyl-2-imidazolidinone; 1,5-pentamethylenetetrazole; 1-phenyl-5-mercaptotetrazole; diaminomethyltriazine; mercaptobenzothiazole; imidazoline thione; mercaptobenzimidazole; 4-methyl-4H-1,2,4-triazole-3-thiol; 5-amino-1,3,4-thiadiazole-2-thiol; benzothiazole; tritiolyl phosphate; indiazole; guanine; adenine; glycerol; thioglycerol; intitilotriacetic acid; salicylamide; iminodiacetic acid; benzoguanamine; melamine; thiocyranuric acid; anthranilic acid; 8-hydroxyquinoline; 5-carboxylic acid-benzotriazole; 3-mercaptopropanol; boric acid; and iminodiacetic acid.

- 17. (Withdrawn) The composition of claim 8, comprising a surfactant.
- 18. (Withdrawn) The composition of claim 17, wherein the surfactant comprises a surfactant species selected from the group consisting of: fluoroalkyl surfactants; polyethylene glycols; polypropylene glycols; polypropylene glycols polyethylene glycol ethers; carboxylic acid salts; dodecylbenzenesulfonic acid and salts thereof; polyacrylate polymers; dinonylphenyl polyoxyethylene; silicone polymers; modified silicone polymers; acetylenic diols; modified actylenic diols, alkylammonium salts; modified alkylammonium salts; and combinations of two or more of the foregoing.
- 19. (Withdrawn) The composition of claim 8, comprising a co-solvent.
- (Withdrawn) The composition of claim 19, wherein the co-solvent comprises a co-solvent species selected from the group consisting of: amines; glycols; glycol ethers; polyglycol ethers; and combinations of two or more of the foregoing.
- 21. (Withdrawn) The composition of claim 19, wherein the co-solvent comprises a co-solvent species selected from the group consisting of: dimethyldiglycolamine; 1,8-diazabicyclo[5.4.0]undecene; aminopropylmorpholine; triethanolamine; methylethanolamine; diethylene glycol; propylene glycol; neopentyl glycol; hydroxyethylmorpholine; aminopropylmorpholine; di(ethylene glycol)monoethyl ether; di(propylene glycol)propyl ether; ethylene glycol phenyl ether; di(propylene glycol) butyl ether; butyl carbitol; polyglycol ethers; and combinations of two or more of the foregoing.

22. (Withdrawn) The cleaning composition of claim 8, including:

0.1-30 wt % strong base

2-30 wt % oxident

0-10 wt % chelator

0-5 wt % surfactant

20-98 wt % deionized water

wherein percentages of the components are percentages by weight, based on total weight of the composition, and wherein the total of the weight percentages of such components of the composition does not exceed 100 weight %.

23. (Withdrawn) The cleaning composition of claim 1, selected from the group consisting of Formulations H-G², wherein all percentages are by weight, based on the total weight of the formulation:

Formulation H

| tetramethylammonium hydroxide, 25% aqueous solution | 14.7 % |
|---|--------|
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| dinonylphenol ethoxylate, 7% aqueous solution | 4.3 % |
| 3-amino-5-mercapto-1,2,4-triazole | 0.1 % |
| water | 73.9 % |
| | |

Formulation I

| tetramethylammonium hydroxide, 25% aqueous solution | 14.7 % |
|---|--------|
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| dinonylphenol ethoxylate, 7% aqueous solution | 4.3 % |
| ammonium tetrathiomolybdate | 0.1 % |
| water | 73.9 % |

Formulation J

| tetramethylammonium hydroxide, 25% aqueous solution | 14.7 % |
|---|--------|
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| dinonylphenol ethoxylate, 7% aqueous solution | 4.3 % |
| 2-mercaptobenzimidazole | 0.1 % |
| aminopropylmorpholine | 20.0 % |
| water | 53.9 % |

Formulation K

| tetramethylammonium hydroxide, 25% aqueous solution | 14.7 % |
|---|--------|
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| dinonvinhenol ethoxylate, 7% aqueous solution | 4.3 % |

| | • |
|---|---------|
| 2-mercaptobenzimidazole | 0.1 % |
| N-ethylmorpholine | 20.0 % |
| water | 53.9 % |
| | 33.9 70 |
| Formulation L | |
| tetramethylammonium hydroxide, 25% aqueous solution | 14.7 % |
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| dinonylphenol ethoxylate, 7% aqueous solution | 4.3 % |
| 2-mercaptobenzimidazole | 0.1 % |
| aminoethylpiperidine | 20.0 % |
| water | 53.9 % |
| | |
| Formulation M | |
| tetramethylammonium hydroxide, 25% aqueous solution | 14.7 % |
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| dinonylphenol ethoxylate, 7% aqueous solution | 4.3 % |
| 3-amino-5-1,2,4-triazole | 0.1 % |
| aminopropylmorpholine | 20.0 % |
| water | 53.9 % |
| Formulation N | |
| tetramethylammonium hydroxide, 25% aqueous solution | 14.7 % |
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| dinonylphenol ethoxylate, 7% aqueous solution | 4.3 % |
| 3-amino-5-1.2.4-triazole | 0.1 % |
| aminopropylmorpholine | .10.0 % |
| water | 63.9 % |
| | 03.5 70 |
| Formulation O | |
| tetramethylammonium hydroxide, 25% aqueous solution | 14.7 % |
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| dinonylphenol ethoxylate, 7% aqueous solution | 4.3 % |
| 2-mercaptobenzimidazole | 0.1 % |
| aminopropylmorpholine | 20.0 % |
| water | 53.9 % |
| | |
| Formulation P | |
| tetramethylammonium hydroxide, 25% aqueous solution | 14.7 % |
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| dinonylphenol ethoxylate, 7% aqueous solution | 4.3 % |
| 2-mercaptobenzimidazole | 0.1 % |
| aminopropylmorpholine | 10.0 % |
| water | 63.9 % |

Formulation Q

| benzyltrimethylammonium hydroxide, 40% aqueous solution | 9.0 % |
|--|-----------------|
| potassium hydroxide, 45% aqueous solution | 0.6 % |
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| dinonylphenol ethoxylate, 7% aqueous solution | 4.3 % |
| 2-mercaptobenzimidazole | 0.1 % |
| aminopropylmorpholine | 20.0 % |
| water | 59.02 % |
| | |
| Formulation R | |
| | |
| benzyltrimethylammonium hydroxide, 40% aqueous solution | 9.0 % |
| potassium hydroxide, 45% aqueous solution | 0.6 % |
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| dinonylphenol ethoxylate, 7% aqueous solution | 4.3 % |
| 2-mercaptobenzimidazole | 0.1 % |
| aminopropylmorpholine | 15.0 % |
| water | 64.02 % |
| | |
| Formulation S | |
| benzyltrimethylammonium hydroxide, 40% aqueous solution | 9.0 % |
| potassium hydroxide, 45% aqueous solution | 0.6 % |
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| dinonylphenol ethoxylate, 7% aqueous solution | 4.3 % |
| 2-mercaptobenzimidazole | 0.1 % |
| aminopropylmorpholine | 10.0 % |
| water | 69.02 % |
| | |
| Formulation T | • |
| benzyltrimethylammonium hydroxide, 40% aqueous solution | 13.4 % |
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| KOH, 45% aqueous solution | 0.6 % |
| 2-mercaptobenzimidizole | 0.08 % |
| dinonylphenol polyoxyethylene | 0.3 % |
| water | 78.62 % |
| | |
| Formulation U | |
| benzyltrimethylammonium hydroxide, 40% aqueous solution | 13.4 % |
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| KOH, 45% aqueous solution | 1.2 % |
| 2-mercaptobenzimidizole | 0.08 % |
| dinonylphenol polyoxyethylene | 0.3 % |
| water | 78.02.% |
| 174101 | |
| Formulation V | |
| | 5 95 0/ |
| tetramethylammonium hydroxide, 25% aqueous solution N-methylmorpholine oxide, 50% aqueous solution | 5.85 % 7.0 % |
| N-methylmorpholine oxide, 50% aqueous solution KOH, 45% aqueous solution | 7.0 % 1.2 % |
| NOD, 4376 aqueous solution | 1.4 70 |
| | |

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| 2-mercaptobenzimidizole dinonylphenol polyoxyethylene water | 0.08 % 0.3 % 85.57 % |
|---|--|
| Formulation W | |
| tetramethylammonium hydroxide, 25% aqueous solution N-methylmorpholine oxide, 50% aqueous solution KOH, 45% aqueous solution COH, 45% aqueous solution 2-mercaptobezimidizole dinonylphenol polyoxyethylene water | 2.93 % 7.0 % 1.2 % 0.08 % 0.3 % 88.49 % |
| Formulation X | |
| benzyltrimethylammonium hydroxide, 40% aqueous solution N-methylmorpholine oxide, 50% aqueous solution KOH, 43% aqueous solution 2-mercaptobenz/midizole dinonylphenol polyoxyethylene water | 7.2 % 7.0 % 0.6 % 0.08 % 0.3 % 84.82 % |
| Formulation Y | |
| benzyltrimethylammonium hydroxide, 40% aqueous solution N-methylmorpholine oxide, 50% aqueous solution KOH, 45% aqueous solution 2-mercaptobenzimidizole dinonylphenol polyoxyethylene water | 3.6 % 7.0 % 1.2 % 0.08 % 0.3 % 87.82 % |
| Formulation Z | |
| benzyltrimethylammonium hydroxide, 40% aqueous solution N-methylmorpholine oxide, 50% aqueous solution KOH, 45% aqueous solution 2-mercaptobenzimidizole dinonylphenol polyoxyethylene water | 3.6 % 7.0 % 0.6 % 0.08 % 0.3 % 88.42 % |
| Formulation A ² | |
| benzyltrimethylammonium hydroxide, 40% aqueous solution N-methylmorpholine oxide, 50% aqueous solution KOH, 45% aqueous solution 2-mercaptobenzimidizole dimonylphenol polyoxyethylene water | 7.2 % 7.0 % 0.3 % 0.08 % 0.3 % 85.12 %. |

Formulation B²

93.9 %.

water

12/30

| tetramethylammonium hydroxide, 25% aqueous solution hydrogen peroxide, 30% aqueous solution | 4.0 % 2.0 % |
|---|----------------|
| 5-aminotetrazole | 0.1 % |
| water | 93.9 % |
| T. I. of | |
| Formulation C ² | |
| tetramethylammonium hydroxide, 25% aqueous solution | 4.0 % |
| hydrogen peroxide, 30% aqueous solution | 2.0 % |
| 2,4-diamino-6-methyl-1,3,5-triazine | 0.1 % |
| water | 93.9 % |
| Formulation D ² | |
| | |
| tetramethylammonium hydroxide, 25% aqueous solution | 4.0 % |
| hydrogen peroxide, 30% aqueous solution | 2.0 % |
| 5-amino-1,3,4-thiadiazole-2-thiol | 0.1 % |
| water | 93.9 % |
| Formulation E ² | |
| tetramethylammonium hydroxide, 25% aqueous solution | 4.0 % |
| hydrogen peroxide, 30% aqueous solution | 2.0 % |
| 1.2.4-triazole | 0.1 % |
| water | 93.9 % |
| 77445 | 75.770 |
| Formulation F ² | |
| tetramethylammonium hydroxide, 25% aqueous solution | 4.0 % |
| hydrogen peroxide, 30% aqueous solution | 2.0 % |
| 2,4-dihydroxy-6-methylpyrimidine | 0.1 % |
| water | 93.9 % |
| | |
| Formulation G ² | |
| tetramethylammonium hydroxide, 25% aqueous solution | 4.0 % |
| hydrogen peroxide, 30% aqueous solution | 2.0 % |
| 8-hydroxyquinoline | 0.1 % |
| | |

24. (Withdrawn) A method of removing photoresist and/or SARC material from a substrate having said material thereon, said method comprising contacting the substrate with a cleaning composition for sufficient time to at least partially remove said material from the substrate, wherein the cleaning composition includes an active cleaning combination (ACC) selected from the group consisting of: (a) a quaternary base in combination with at least one of alkali and alkaline earth base; and (b) a strong base in combination with an oxidant.

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- 25. (Withdrawn) The method of claim 24, wherein the substrate comprises a semiconductor device structure.
- 26. (Withdrawn) The method of claim 24, wherein the material comprises photoresist.
- 27. (Withdrawn) The method of claim 24, wherein the material comprises SARC material.
- 28. (Withdrawn) The method of claim 27, wherein the SARC material has been applied to a semiconductor device structure to minimize reflectivity variations during photolithographic patterning on the semiconductor device structure.
- 29. (Withdrawn) The method of claim 24, wherein said contacting is carried out for a time of from about 10 to about 45 minutes.
- (Withdrawn) The method of claim 24, wherein said contacting is carried out at temperature in a range of from about 50°C to about 80°C.
- 31. (Withdrawn) The method of claim 24, wherein the composition is devoid of hydroxylamine therein.
- 32. (Withdrawn) The method of claim 24, wherein said ACC comprises (a).
- 33. (Withdrawn) The method of claim 32, wherein the composition comprises the following components:
 - 0.1 40.0 weight % organic quaternary base:
 - 0.01-5 weight % alkali or alkaline earth base;
 - 0-80 weight % solvent(s) and/or amine(s);
 - 0-5 weight % surfactant;
 - 0-10 weight % chelator/passivation agent; and
 - 0-98 weight % water,

wherein percentages of the components are percentages by weight, based on total weight of the composition, and wherein the total of the weight percentages of such components of the composition does not exceed 100 weight %.

- 34. (Withdrawn) The method of claim 24, wherein the composition includes at least one additional ingredient selected from the group consisting of stabilizers, dispersants, anti-oxidants, fillers, penetration agents, adjuvants, additives, fillers, and excipients.
- 35. (Withdrawn) The method of claim 32, wherein the composition comprises the following components:
 - 2-15 weight % organic quaternary base;
 - ~0.01-2 weight % alkali or alkaline earth base;
 - 0-50 weight % solvent(s) and/or amine(s);
 - ~0.01-2 weight % surfactant;
 - 0-5 weight % chelator/passivation agent; and
 - 40 95 weight % water,

wherein percentages of the components are percentages by weight, based on total weight of the composition, and wherein the total of the weight percentages of such components of the composition does not exceed 100 weight %.

36. (Withdrawn) The method of claim 24, wherein the cleaning composition is selected from the group consisting of Formulations A-G, wherein all percentages are by weight, based on the total weight of the formulation:

Formulation A

- 5.36% benzyltrimethylammonium hydroxide
- 0.28% potassium hydroxide
- 3.0% 4-methylkmorpholine N-oxide
- 0.30% polyoxyethylene(150) dinonylphenyl ether
- 0.08% 2-mercaptobenzimidazole
- 91.0% water

Formulation B

- 5.36% benzyltrimethylammonium hydroxide
- 0.28% potassium hydroxide
- 3.0% 4-methylmorpholine N-oxide
- 0.30% polyoxyethylene(150) dinonylphenyl ether
- 0.20% 5-amino-1.3.4-thiadiazole-2-thiol
- 90.86% water

Formulation C

3.60% benzyltrimethylammonium hydroxide

- 0.27% potassium hydroxide
- 3.5% 4-methylmorpholine N-oxide
- 15.0% 4-(3-aminopropyl)morpholine
- 0.30% polyoxyethylene(150) dinonylphenyl ether
- 0.08% 2-mercaptobenzimidazole
- 77.25% water

Formulation D

- 5.36% benzyltrimethylammonium hydroxide
- 0.28% potassium hydroxide
- 20.0% dimethyl sulfoxide
- 0.08% 2-mercaptobenzimidazole
- 74.28% water

Formulation E

- 5.36% benzyltrimethylammonium hydroxide
- 0.28% potassium hydroxide
- 10.0% tetramethylene sulfone
- 0.30% oxirane, methyl-, polymer with oxirane, ether with 2.2'-(oxidoimino)bis(ethanol) (2:1), N(-3(C(-11-isoalkyloxy)propyl)derivatives, C₁₀-rich
- 0.08% 2-mercaptobenzimidazole
- 83.98% water

Formulation F

- 5.36% benzyltrimethylammonium hydroxide
- 0.28% potassium hydroxide
- 10.0% di(ethyleneglycol)butyl ether
- 10.0% 2-(2-dimethylamino)ethoxy)ethanol
- 0.30% oxirane, methyl-, polymer with oxirane, ether with 2.2'-(oxidoimino)bis(ethanol) (2:1), N(-3(C(-11-isoalkyloxy)propyl)derivatives, C₁₀-rich
- 74.06% water

Formulation G

- 5.36% benzyltrimethylammonium hydroxide
- 0.28% potassium hydroxide
- 10.0% tetramethylene sulfone
- 10.0% di(ethyleneglycol)butyl ether
- 0.10% oxirane, methyl-, polymer with oxirane, mono(octylphenyl)ether
- 0.08% 2-mercaptobenzimidazole
- 74.18% water.
- 37. (Withdrawn) The method of claim 24, wherein said ACC comprises (b).

- 38. (Withdrawn) The method of claim 37, wherein the cleaning composition includes an aqueous solution of at least one oxidant, a strong base, optionally a chelator and optionally a cosolvent and/or a surfactant.
- 39. (Withdrawn) The method of claim 24, wherein the ACC comprises potassium hydroxide.
- 40. (Withdrawn) The method of claim 37, wherein the cleaning composition includes the following components:
 - 0.1-30 wt % strong base;
 - 0.01-30 wt % oxidant:
 - 0-10 wt % chelator;
 - 0-5 wt % surfactant;
 - 0-50 wt % co-solvent; and 20-98.9 wt % deionized water.
- wherein percentages of the components are percentages by weight, based on total weight of the composition, and wherein the total of the weight percentages of such components of the composition does not exceed 100 weight %.
- 41. (Withdrawn) The method of claim 40, wherein the strong base comprises a base species selected from the group consisting of potassium hydroxide and alkylammonium hydroxides and choline hydroxide.
- 42. (Withdrawn) The method of claim 37, wherein the oxidant comprises an oxidant species selected from the group consisting of hydrogen peroxide, amine-N-oxides, perborate salts, persulfate salts, and combinations of two or more of the foregoing.
- 43. (Withdrawn) The method of claim 37, including a chelator.
- 44. (Withdrawn) The method of claim 43, wherein the chelator comprises a chelator species selected from the group consisting off: triazoles; triazoles; substituted with substitutent(s) selected from the group consisting of C₁-C₈ alkyl, amino, thiol, mercapto, imino, carboxy and nitro; thiazoles; tetrazoles; imidazoles; phosphates; thiols; azines; glycerols; amino acids; carboxylic acids; alcohols; amides; and quinolines.

- 45. (Withdrawn) The method of claim 43, wherein the chelator comprises a chelator species selected from the group consisting of: 1,2,4-triazole; benzotriazole; tolyltriazole; 5-phenylbenzotriazole; 5-nitro-benzotriazole; 1-amino-1,2,4-triazole; hydroxybenzotriazole; 2-(5-aminopentyl)-benzotriazole; 1-amino-1,2,3-triazole; 1-amino-5-methyl-1,2,3-triazole; 3-amino-1,2,4triazole; 3-mercapto-1,2,4-triazole; 3-isopropyl-1,2,4-triazole; 5-phenylthiol-benzotriazole; halobenzotriazoles wherein halo is selected from the group consisting of F, Cl, Br and I; naphthotriazole; 2-mercaptobenzoimidizole; 2-mercaptobenzothiazole; 5-aminotetrazole; 5amino-1,3,4-thiadiazole-2-thiol; 2,4-diamino-6-methyl-1,3,5-triazine; thiazole; triazine: methyltetrazole; 1.3-dimethyl-2-imidazolidinone; 1.5-pentamethylenetetrazole; 1-phenyl-5mercaptotetrazole; diaminomethyltriazine; mercaptobenzothiazole; imidazoline thione; mercaptobenzimidazole; 4-methyl-4H-1,2,4-triazole-3-thiol; 5-amino-1,3,4-thiadiazole-2-thiol; benzothiazole; trritolyl phosphate; indiazole; guanine; adenine; glycerol; thioglycerol; nitrilotriacetic acid; salicylamide; iminodiacetic acid; benzoguanamine; melamine; thiocyranuric acid; anthranilic acid; 8-hydroxyquinoline; 5-carboxylic acid-benzotriazole; 3-mercaptopropanol; boric acid: and iminodiacetic acid.
- 46. Withdrawn) The method of claim 37, wherein the cleaning composition comprises a surfactant.
- 47. (Withdrawn) The method of claim 46, wherein the surfactant comprises a surfactant species selected from the group consisting of: fluoroalkyl surfactants; polyethylene glycols; polypropylene glycols; polyethylene glycol ethers; carboxylic acid salts; dodecylbenzzenesulfonic acid and salts thereof; polyacrylate polymers; dinonylphenyl polyoxyethylene; silicone polymers; modified silicone polymers; acetylenic diols; modified acetylenic diols, alkylammonium salts; modified alkylammonium salts; and combinations of two or more of the foregoing.
- 48. (Withdrawn) The method of claim 37, wherein the cleaning composition includes a cosolvent.
- 49. (Withdrawn) The method of claim 48, wherein the co-solvent comprises a co-solvent species selected from the group consisting of: amines; glycols; glycol ethers; polyglycol ethers; and combinations of two or more of the foregoing.

50. (Withdrawn) The method of claim 48, wherein the co-solvent comprises a co-solvent species selected from the group consisting of: dimethyldiglycolamine; 1,8-diazabicyclo[5.4.0]undecene; aminopropylmorpholine; triethanolamine; methylethanolamine; diethylene glycol; propylene glycol; neopentyl glycol; hydroxyethylmorpholine; aminopropylmorpholine; di(ethylene glycol)monoethyl ether; di(propylene glycol)propyl ether; ethylene glycol phenyl ether; di(propylene glycol) butyl ether; butyl carbitol; polyglycol ethers;

51. (Withdrawn) The method of claim 37, wherein the composition includes:

and combinations of two or more of the foregoing.

- 0.1-30 wt % strong base
- 2-30 wt % oxidant
- 0-10 wt % chelator
- 0-5 wt % surfactant
- 20-98 wt % deionized water

wherein percentages of the components are percentages by weight, based on total weight of the composition, and wherein the total of the weight percentages of such components of the composition does not exceed 100 weight %.

52. (Withdrawn) The method of claim 24, wherein the cleaning composition is selected from the group consisting of Formulations H-G², wherein all percentages are by weight, based on the total weight of the formulation:

Formulation H

| tetramethylammonium hydroxide, 25% aqueous solution | 14.7 % |
|---|--------|
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| dinonylphenol ethoxylate, 7% aqueous solution | 4.3 % |
| 3-amino-5-mercapto-1,2,4-triazole | 0.1 % |
| water | 73.9 % |

Formulation I

| tetramethylammonium hydroxide, 25% aqueous solution | 14.7 % |
|---|--------|
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| dinonylphenol ethoxylate, 7% aqueous solution | 4.3 % |
| ammonium tetrathiomolybdate | 0.1 % |
| water | 73.9 % |

Formulation J

| tetramethylammonium hydroxide, 25% aqueous solution N-methylmorpholine oxide, 50% aqueous solution dinonylphenol ethoxylate, 7% aqueous solution 2-mercaptobenzimidazole aminopropylmorpholine water | 14.7 % 7.0 % 4.3 % 0.1 % 20.0 % 53.9 % |
|---|---|
| Formulation K | |
| tetramethylammonium hydroxide, 25% aqueous solution N-methylmorpholine oxide, 50% aqueous solution dinonylphenol ethoxylate, 7% aqueous solution 2-mercaptobenzimidazole N-ethylmorpholine water | 14.7 % 7.0 % 4.3 % 0.1 % 20.0 % 53.9 % |
| Formulation L | |
| tetramethylammonium hydroxide, 25% aqueous solution N-methylmorpholine oxide, 50% aqueous solution dinonylphenol ethoxylate, 7% aqueous solution 2-mercaptobenzimidazole aminoethylpiperidine water | 14.7 % 7.0 % 4.3 % 0.1 % 20.0 % 53.9 % |
| Formulation M | |
| tetramethylammonium hydroxide, 25% aqueous solution N-methylmorpholine oxide, 50% aqueous solution dinonylphenol ethoxylate, 7% aqueous solution 3-amino-5-1,2,4-triazole aminopropylmorpholine water | 14.7 % 7.0 % 4.3 % 0.1 % 20.0 % 53.9 % |
| Formulation N . | |
| tetramethylammonium hydroxide, 25% aqueous solution N-methylmorpholine oxide, 50% aqueous solution dinonylphenol ethoxylate, 7% aqueous solution 3-amino-5-1,2,4-triazzole aminopropylmorpholine water | 14.7 % 7.0 % 4.3 % 0.1 % 10.0 % 63.9 % |
| Formulation Q | |
| tetramethylammonium hydroxide, 25% aqueous solution N-methylmorpholine oxide, 50% aqueous solution dinonlylphenol ethoxylate, 7% aqueous solution 2-mercaptobenzimidazole aminopropylmorpholine water | 14.7 % 7.0 % 4.3 % 0.1 % 20.0 % 53.9 % |

Formulation P

| tetramethylammonium hydroxide, 25% aqueous solution | 14.7 % |
|---|--------|
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| dinonylphenol ethoxylate, 7% aqueous solution | 4.3 % |
| 2-mercaptobenzimidazole | 0.1 % |
| aminopropylmorpholine | 10.0 % |
| water | 63.9 % |

Formulation Q

| benzyltrimethylammonium hydroxide, 40% aqueous solution | 9.0 % |
|---|---------|
| potassium hydroxide, 45% aqueous solution | 0.6 % |
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| dinonylphenol ethoxylate, 7% aqueous solution | 4.3 % |
| 2-mercaptobenzimidazole | 0.1 % |
| aminopropylmorpholine | 20.0 % |
| water | 59.02 % |

Formulation R

| benzyltrimethylammonium hydroxide, 40% aqueous solution | 9.0 % |
|---|---------|
| potassium hydroxide, 45% aqueous solution | 0.6 % |
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| dinonylphenol ethoxylate, 7% aqueous solution | 4.3 % |
| 2-mercaptobenzimidazole | 0.1 % |
| aminopropylmorpholine | 15.0 % |
| water | 64.02 % |

Formulation S

| 9.0 % |
|---------|
| 0.6 % |
| 7.0 % |
| 4.3 % |
| 0.1 % |
| 10.0 % |
| 69.02 % |
| |

Formulation T

| benzyltrimethylammonium hydroxide, 40% aqueous solution | 13.4 % |
|---|---------|
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| KOH, 45% aqueous solution | 0.6 % |
| 2-mercaptobenzimidizole | 0.08 % |
| dinonylphenol polyoxyethylene | 0.3 % |
| motor | 78.62 % |

Formulation U

| benzyltrimethylammonium hydroxide, 40% aqueous solution | 13.4 % |
|--|------------------|
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| KOH, 45% aqueous solution | 1.2 % |
| 2-mercaptobenzimidizole | 0.08 % |
| dinonylphenol polyoxyethylene | 0.3 % |
| water | 78.02 % |
| water | 78.02 % |
| | |
| Formulation V | |
| tetramethylammonium hydroxide, 25% aqueous solution | 5.85 % |
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| KOH, 45% aqueous solution | 1.2 % |
| 2-mercaptobenzimidizole | |
| | 0.08 % |
| dinonylphenol polyoxyethylene | 0.3 % |
| water | 85.57 % |
| | |
| Formulation W | |
| tetramethylammonium hydroxide, 25% aqueous solution | 2.93 % |
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| KOH, 45% aqueous solution | 1.2 % |
| 2-mercaptobenzimidizole | 0.08 % |
| dinonylphenol polyoxyethylene | 0.3 % |
| water | 88.49 % |
| water | 00.49 70 |
| Formulation X | |
| benzyltrimethylammonium hydroxide, 40% aqueous solution | 7.2 % |
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| KOH, 45% aqueous solution | |
| 2-mercaptobenzimidizole | 0.6% |
| 2-mercaptobenzimidizole | 0.08 % |
| dinonylphenol polyoxyethylene | 0.3 % |
| water | 84.82 % |
| | |
| Formulation Y | |
| benzyltrimethylammonium hydroxide, 40% aqueous solution | 3.6 % |
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| KOH, 45% aqueous solution | 1.2 % |
| 2-mercaptobenzimidizole | 0.08 % |
| dinonylphenol polyoxyethylene | 0.3 % |
| water | 87.82 % |
| THE STATE OF THE S | 07.02 70 |
| Formulation Z | |
| benzyltrimethylammonium hydroxide, 40% aqueous solution | 3.6% |
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| KOH. 45% aqueous solution | 0.6 % |
| 2-mercaptobenzimidizole | 0.08 % |
| dinonylphenol polyoxyethylene | |
| | |
| water | 0.3 % 88.42 % |

Formulation A2

| benzyltrimethylammonium hydroxide, 40% aqueous solution | 7.2 % |
|---|---------|
| N-methylmorpholine oxide, 50% aqueous solution | 7.0 % |
| KOH, 45% aqueous solution | 0.3 % |
| 2-mercaptobenzimidizole | 0.08 % |
| dinonylphenol polyoxyethylene | 0.3 % |
| water | 85.12 % |

Formulation B²

| tetramethylammonium hydroxide, 25% aqueous solution | 4.0 % |
|---|--------|
| hydrogen peroxide, 30% aqueous solution | 2.0 % |
| 5-aminotetrazole | 0.1 % |
| water | 93.9 % |

Formulation C2

| tetramethylammonium hydroxide, 25% aqueous solution | 4.0 % |
|---|--------|
| hydrogen peroxide, 30% aqueous solution | 2.0 % |
| 2,4-diamino-6-methyl-1,3,5-triazine | 0.1 % |
| water | 93.9 % |

Formulation D²

| Tornal and D | |
|---|--------|
| tetramethylammonium hydroxide, 25% aqueous solution | 4.0 % |
| hydrogen peroxide, 30% aqueous solution | 2.0 % |
| 5-amino-1,3,4-thiadiazole-2-thiol | 0.1 % |
| water | 93.9 % |
| | |

Formulation E²

| tetramethylammonium hydroxide, 25% aqueous solution | 4.0 %. |
|---|--------|
| hydrogen peroxide, 30% aqueous solution | 2.0 % |
| 1,2,4-triazole | 0.1 % |
| water | 93.9 % |

Formulation F2

| tetramethylammonium hydroxide, 25% aqueous solution | 4.0 % |
|---|--------|
| hydrogen peroxide, 30% aqueous solution | 2.0 % |
| 2,4-dihydroxy-6-methylpyrimidine | 0.1 % |
| water | 03 0 % |

Formulation G²

| tetramethylammonium hydroxide, 25% aqueous solution | 4.0 % |
|---|---------|
| hydrogen peroxide, 30% aqueous solution | 2.0 % |
| 8-hydroxyquinoline | 0.1 % |
| water | 93.9 %. |

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